



For equipment storage only. Not to be occupied.

STRUCTURAL DESIGN

ENCLOSED BUILDING

MAXIMUM 30'-0" WIDE X 20'- 0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

20 January 2022 Revision 0 M&A Project No. 21263S

Prepared for:

Five Star Metal Buildings, LLC P.O. Box 1186 Toast, NC 27049

Prepared by:

Moore and Associates Engineering and Consulting, Inc. 1009 East Avenue North Augusta, SC 29841

> 401 S. Main Street, Suite 200 Mt. Airy, NC 27030



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 CLIENT: FIVE STAR

1.	INSTALLATION NOTES AND SPECIFICATIONS DESIGN IS FOR MAXIMUM 30'-0" WIDE × 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
	DESIGN WAS DONE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES LISTED ON SHEET 3A.
	DESIGN LOADS ARE AS FOLLOWS
	A) ROOF DEAD LOAD SELF-WEIGHT = 1.5 PSF MEP = 10 PSF
	CDLLATERAL = 0 PSF B) ROOF LIVE LOAD = 20 PSF C) FLOOR LIVE LOAD = 100 PSF (4" CONCRETE SLAB-ON-GRADE) D) GROUND SNOW LOAD = 40 PSF
	= 30 PSF WITH U-CHANNEL PEAK BRACE (₩ < 24'-0" (RISK CATEGORY I DNLY)) (NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED).
	3-SECEND GUST ULTIMATE WIND SPEED (V_{ULT}) \leq 140 MPH (NEMINAL WIND SPEED \leq 108 MPH).
	MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 4.0 FEET (UNLESS NOTED OTHERWISE).
	ENDWALL COLUMNS (COLUMNS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
	RISK CATEGORY I/II (RISK CATEGORY I NOT FOR HUMAN HABITATION). WIND EXPOSURE CATEGORY B/C.
9.	STRUCTURAL ANALYSIS/DESIGN IS BASED ON TS MEETING THE REQUIREMENTS OF ASTM A653 GRADE 50 WITH MINIMUM YIELD STRENGTH (FY) OF 54 KSI AND GALVANIZING MEETING THE REQUIREMENTS OF G60.
	SPECIFICATIONS APPLICABLE TO 26 GAUGE DR 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" × 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE), 2 1/4" × 2 1/4" - 12 GAUGE TS MAY BE USED AS OPTIONAL FRAMING MEMBERS,
	CONNECTOR SLEEVES ARE MINIMUM 6" LONG, 2 1/4"×2 1/4"-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
	AVERAGE PANEL FASTENER SPACING ON-CENTERS = 6 INCHES.
	FASTENERS CONSIST OF #12-14x3/4* SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 16 FEET OR LESS, AND ROOF SLOPES OF 14* (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT.
	GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL AT OR WITHIN 6" OF EVERY COLUMN.
	STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND MAY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
16.	WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE;SOIL SITE CLASS = DRISK CATEGORY I/IIR= 3.25 IIR= 1.0
	$S_{20} = 2.625 g$ V = C ₂ V $S_{20} = 2.13 g$
17.	MAXIMUM THRESHOLD HEIGHT IS 1/2" FOR PERSONNEL DOORS UTILIZED AS MEANS OF EGRESS (RISK CATEGORY II ONLY).
	CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATION ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.

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LIST OF APPLICABLE BUILDING CODES

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2012 INTERNATIONAL BUILDING CODE (IBC 2012)

BUILDING CODE 2015 OF ALABAMA (ADOPTS THE IBC 2015 WITHOUT AMENDMENTS)

GEORGIA STATE MINIMUM STANDARD BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

2018 KENTUCKY BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)

2018 NORTH CARDLINA BUILDING CODE (ADDPTS THE IBC 2015 WITH AMENDMENTS)

CHID BUILDING CODE 2017 (ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2015 OF PENNSYLVANIA (ADOPTS THE IBC 2015 WITH AMENDMENTS) 2018 PHILADELPHIA BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

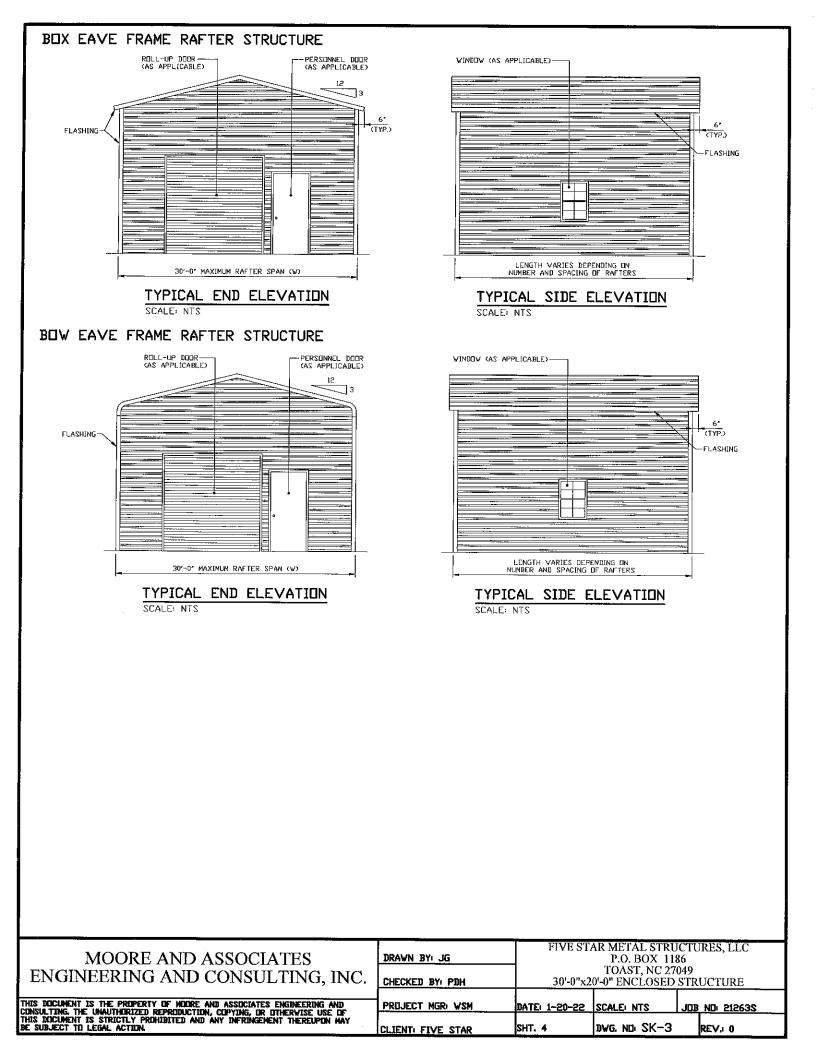
2018 SOUTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

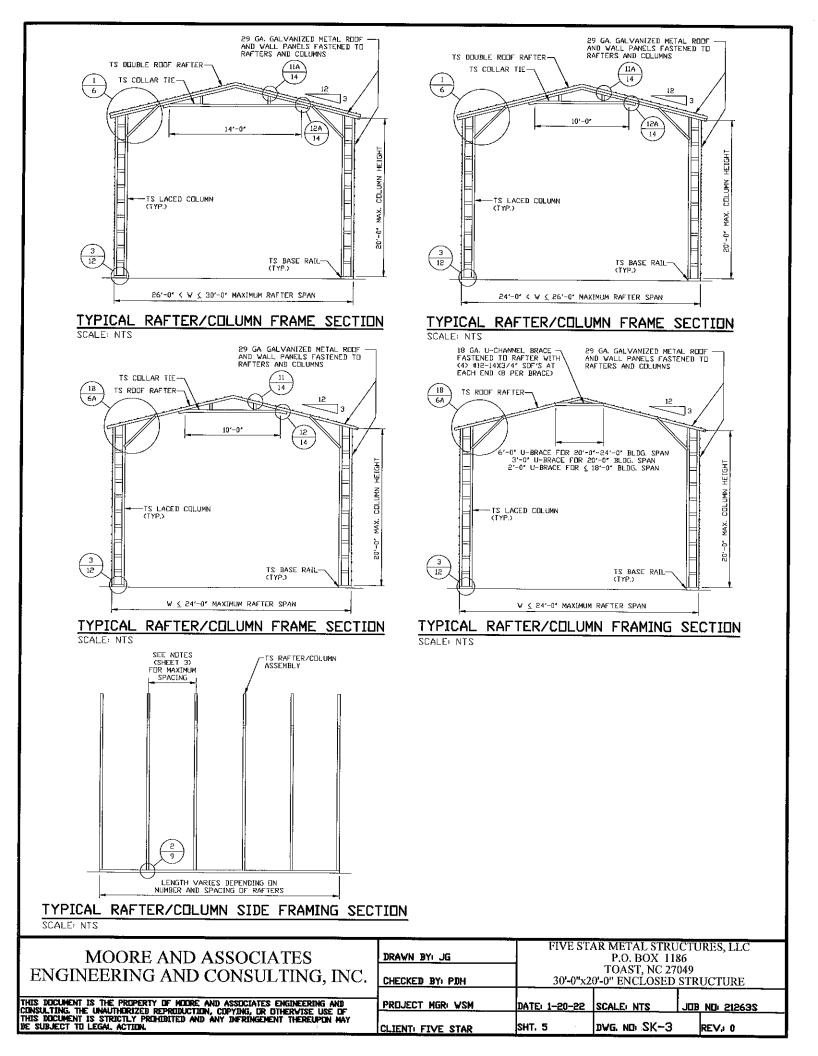
BUILDING CODE 2012 OF TENNESSEE (ADOPTS THE IBC 2012 WITH AMENDMENTS)

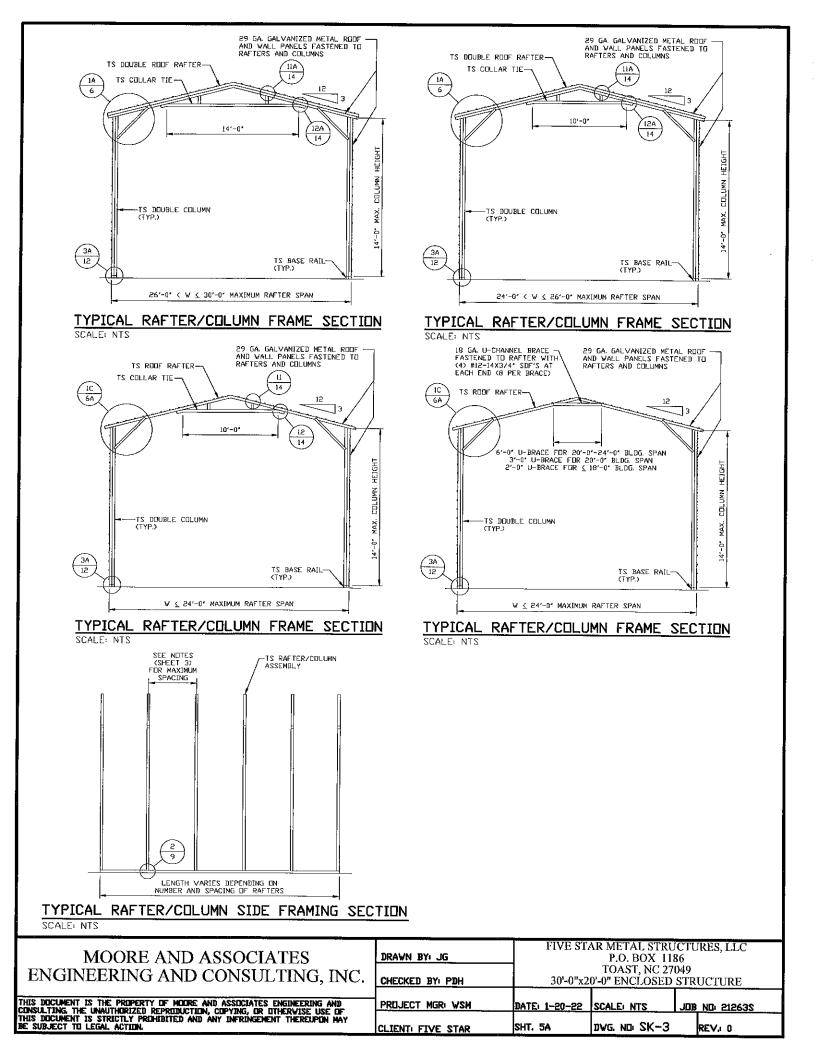
2018 VIRGINIA CONSTRUCTION CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

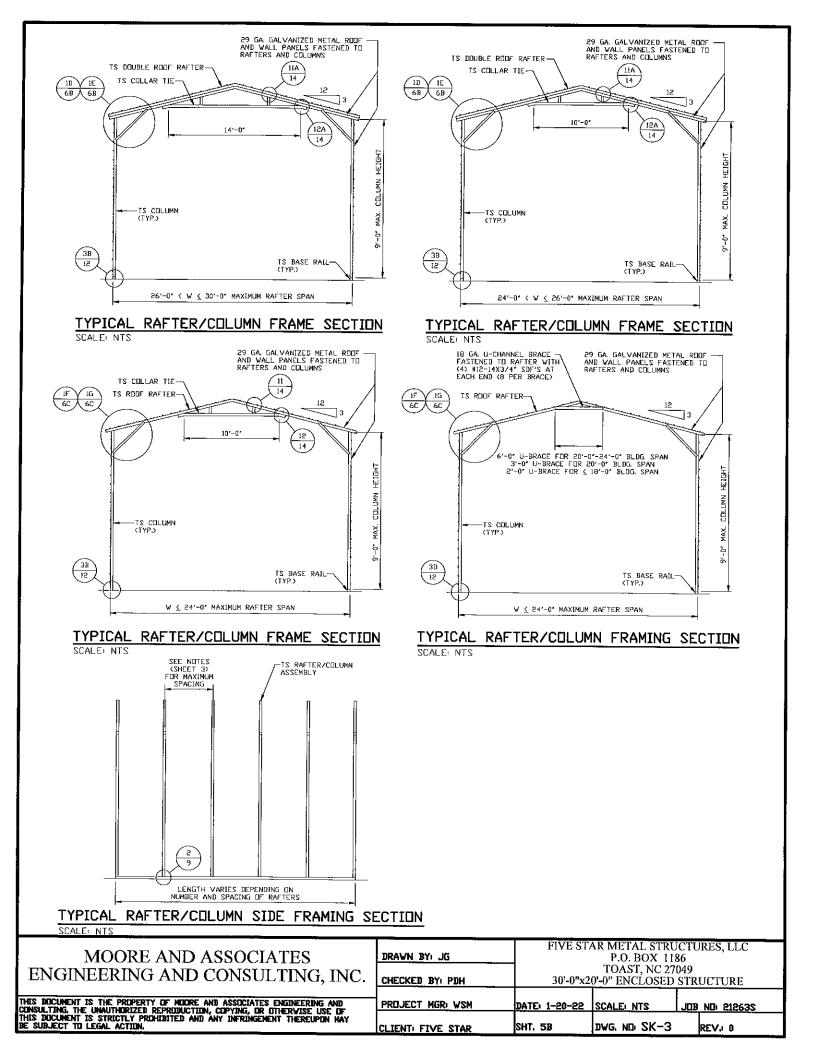
BUILDING CODE 2015 OF WEST VIRGINIA (ADOPTS THE IBC 2015 WITH AMENDMENTS)

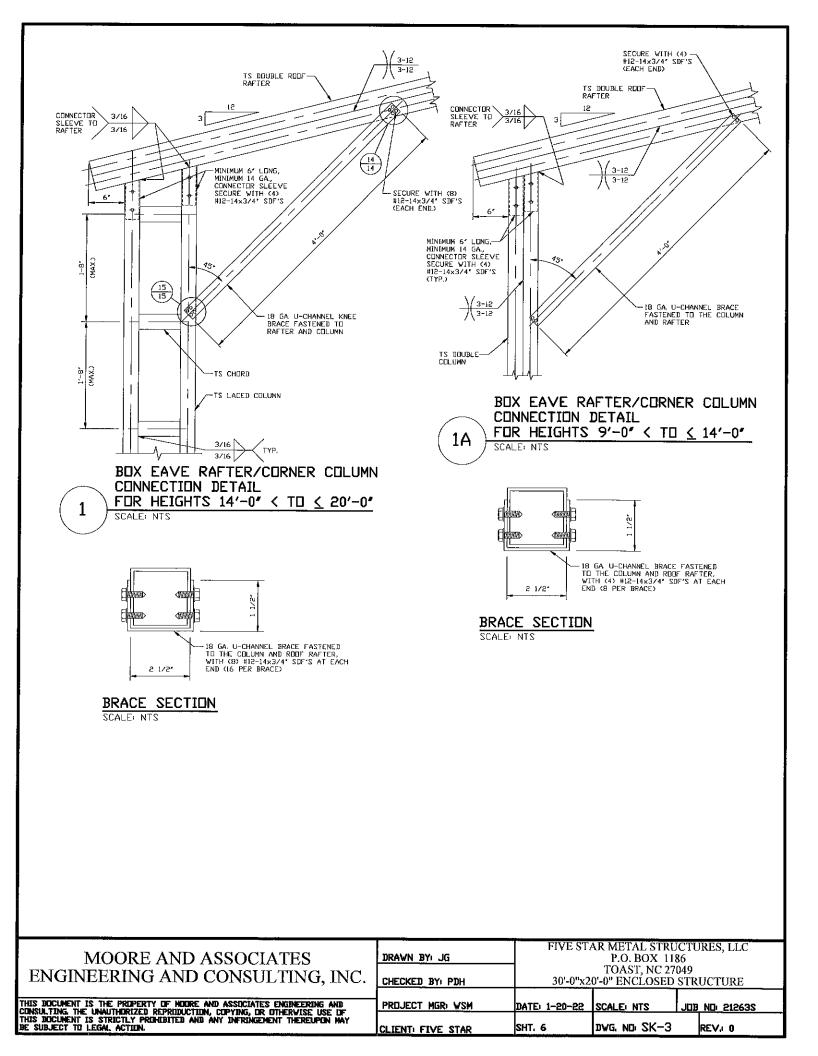
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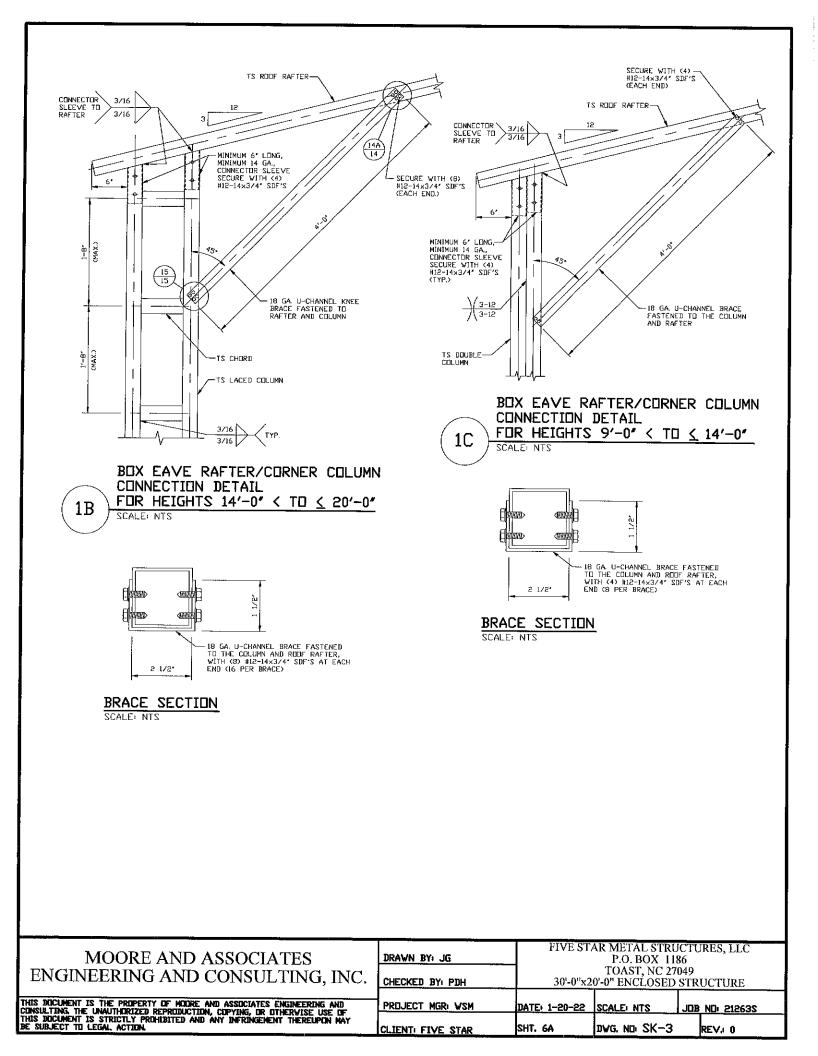


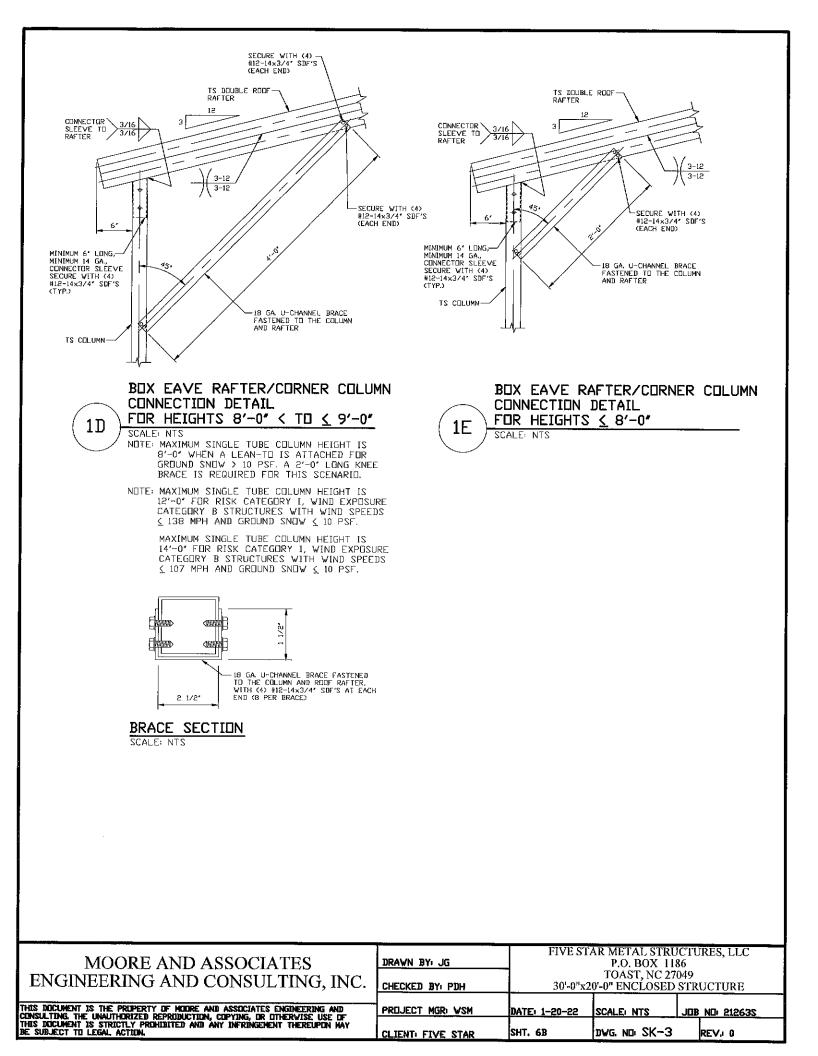


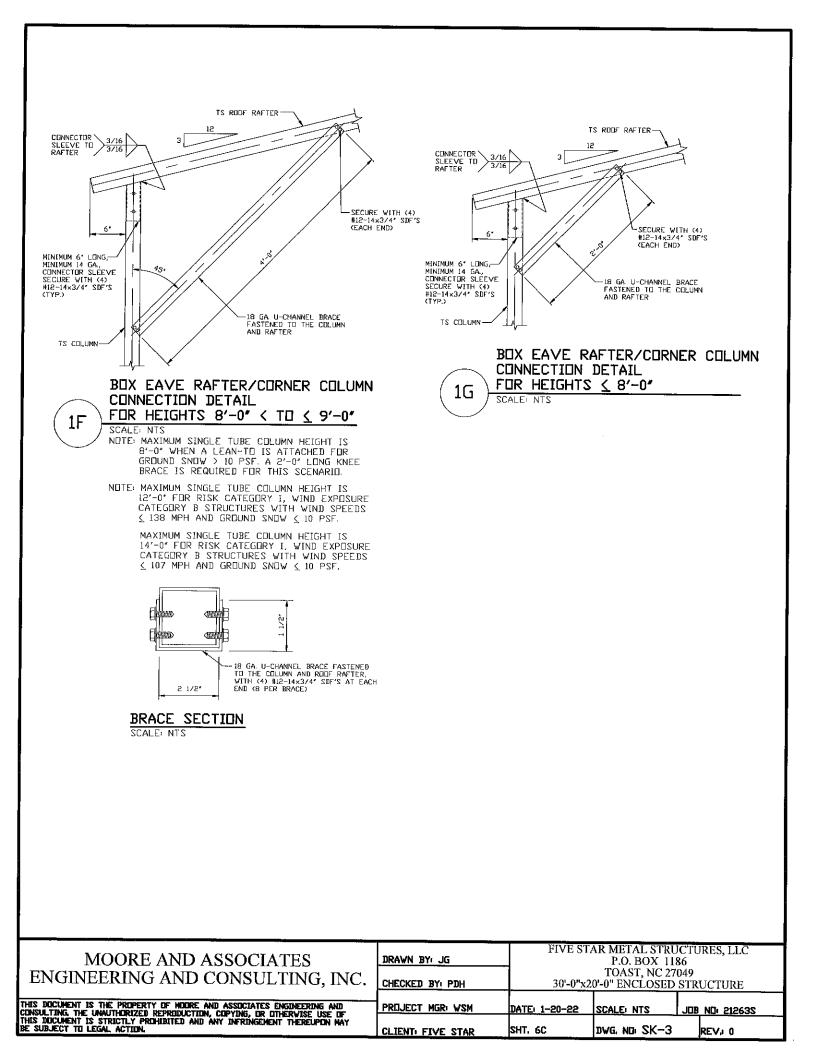


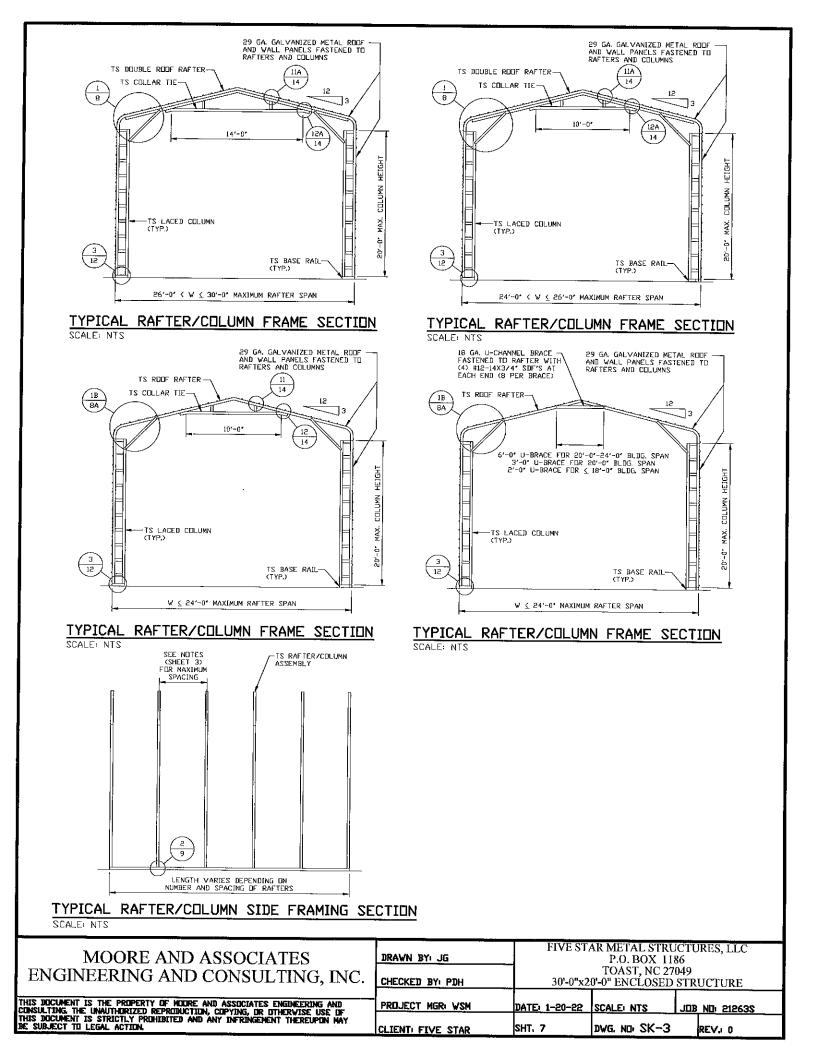


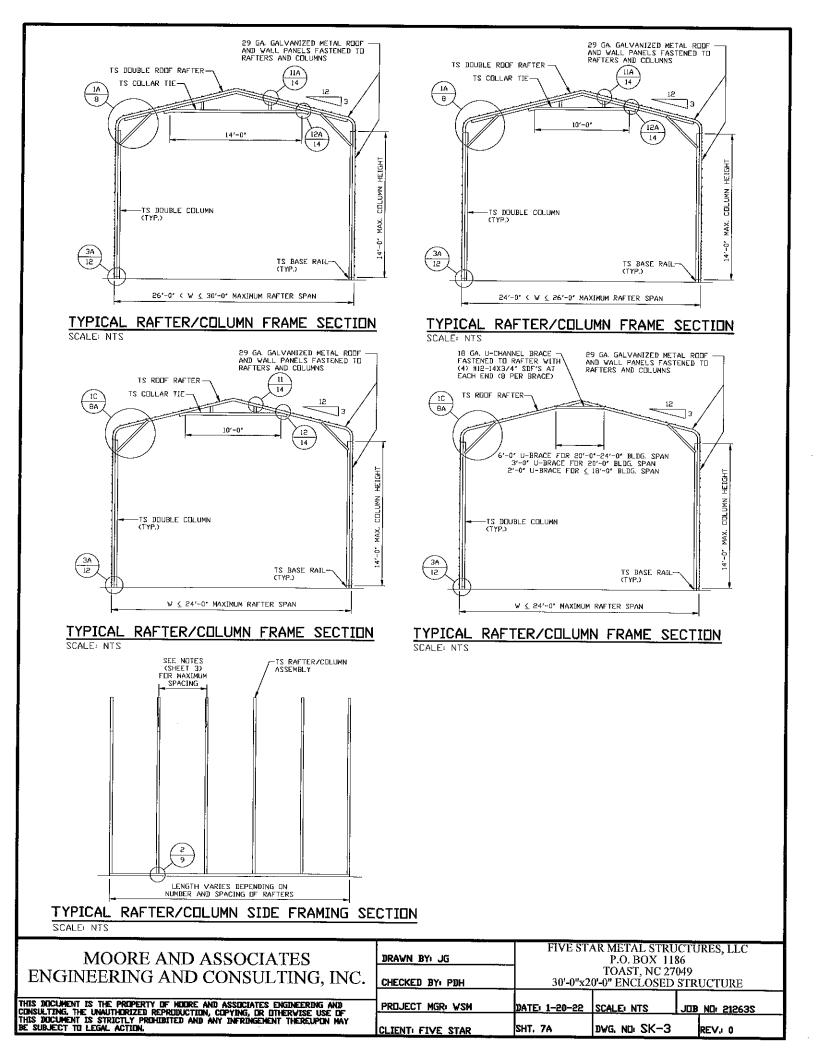


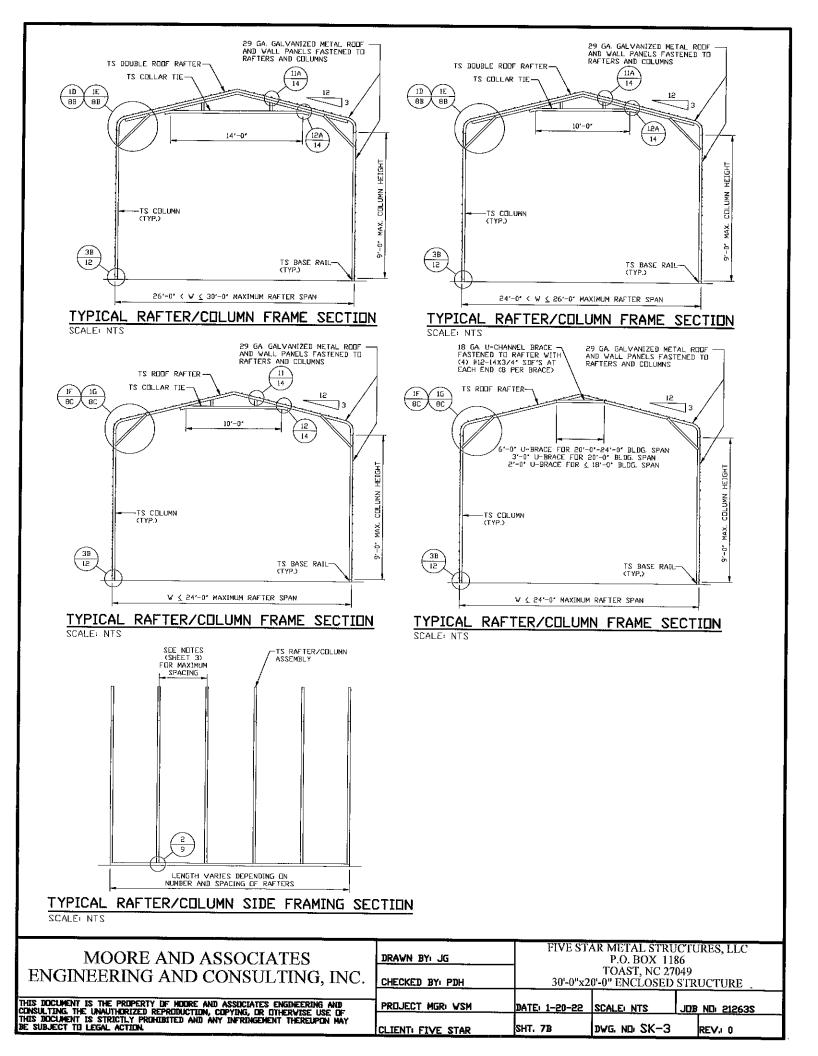


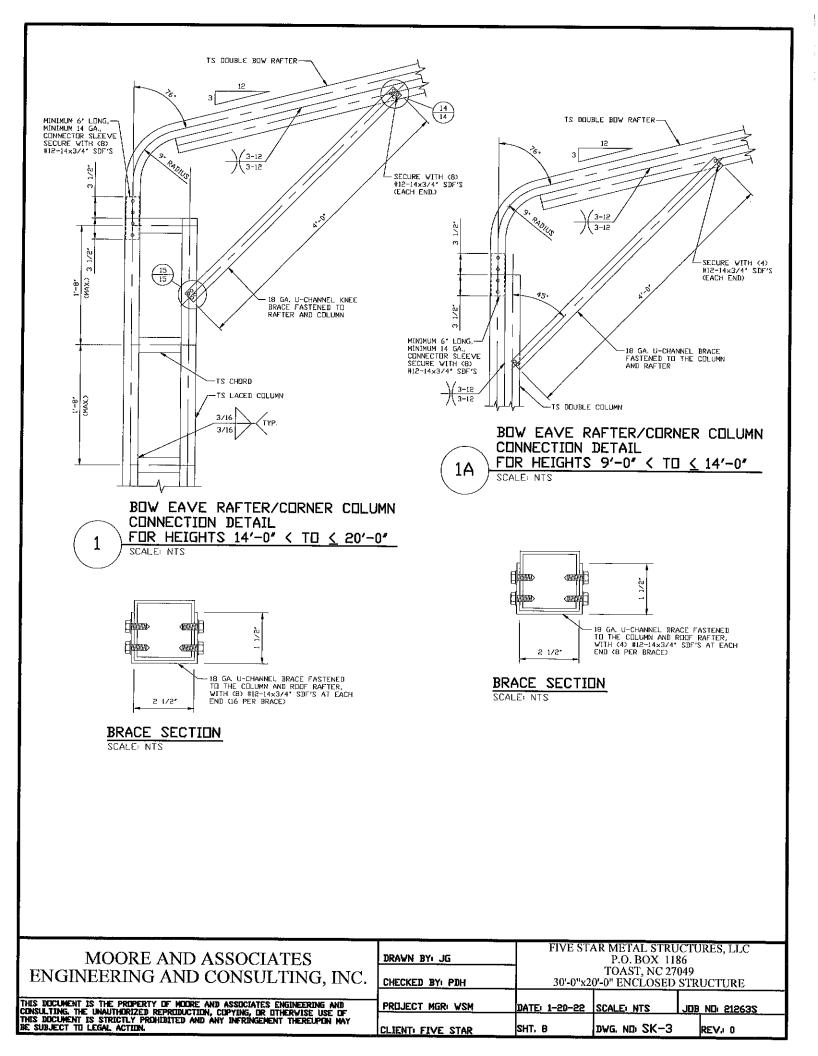


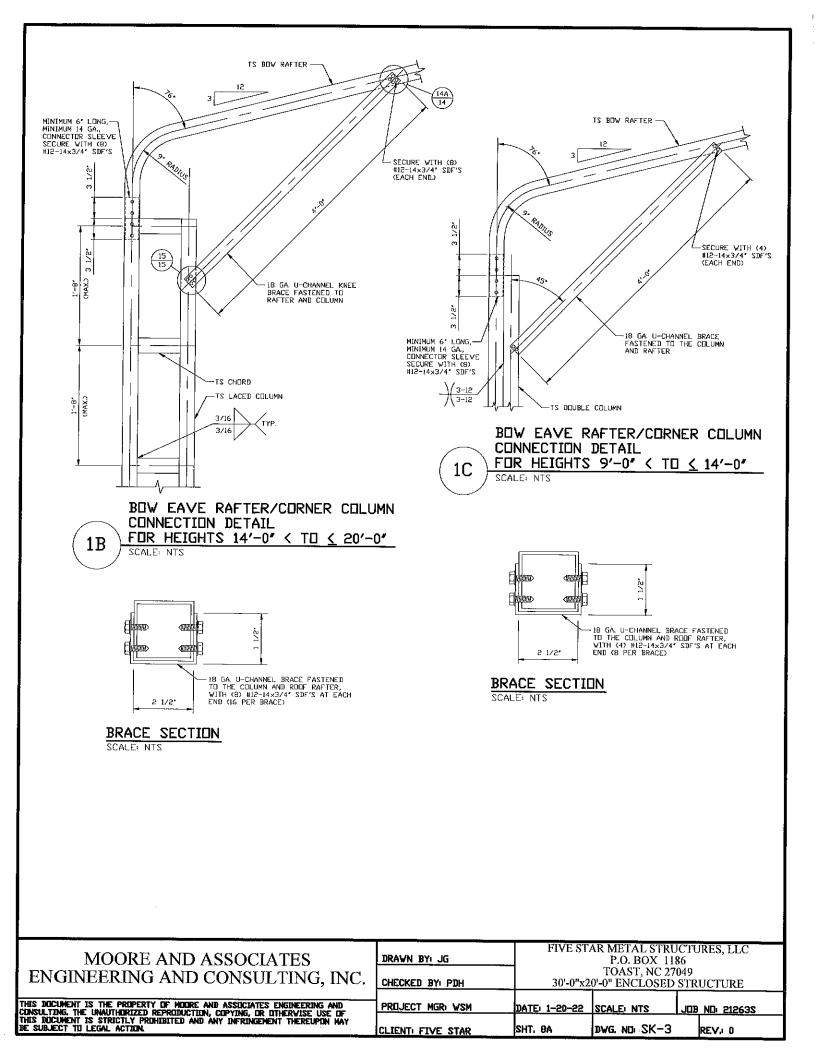


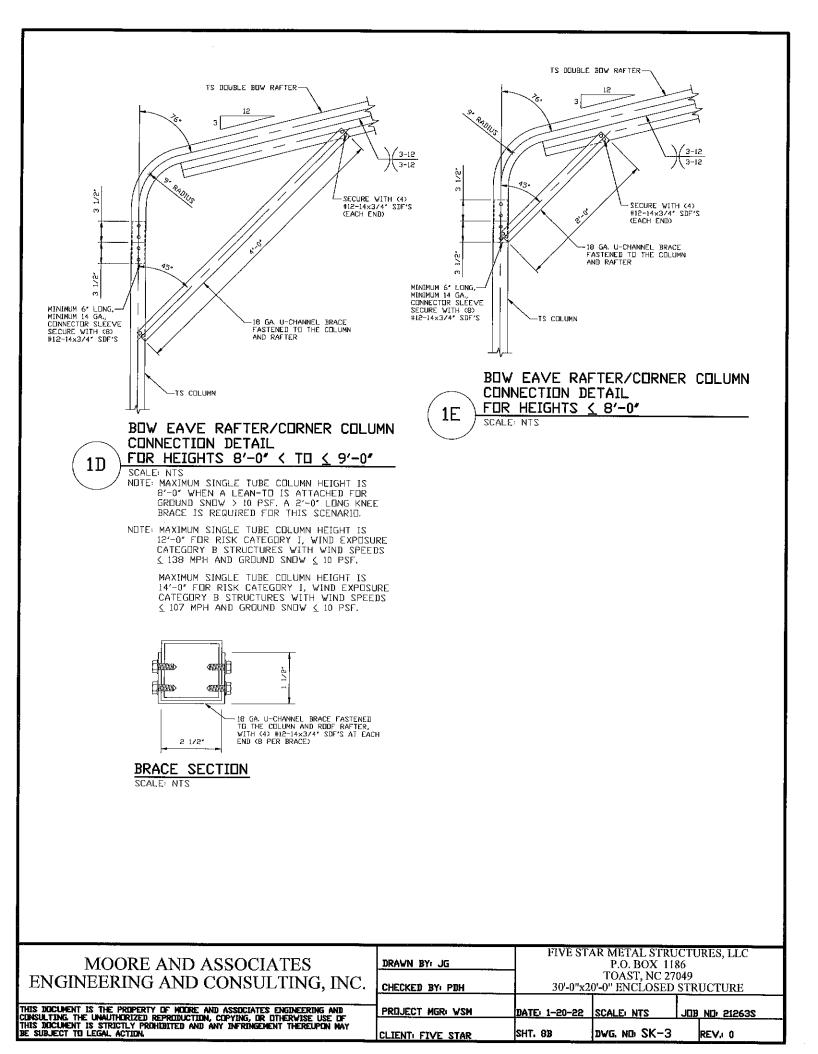


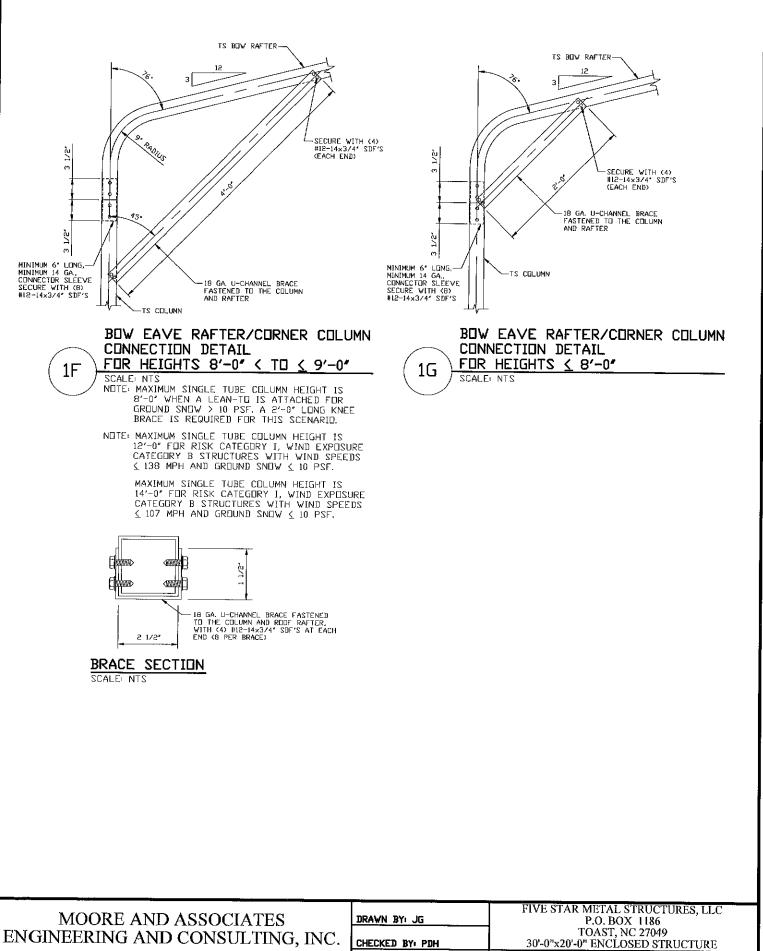






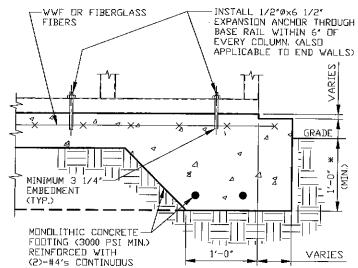






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BASE RAIL ANCHORAGE OPTIONS



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE SCALE: NTS

MINIMUM ANCHOR EDGE DISTANCE IS 4". * COURDINATE WITH LOCAL BUILDING CODE AND/DRD REGARDING MINIMUM FROST DEPTH (LENGTH).

GENERAL NOTES

2

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SDIL BEARING CAPACITY DF 1,500 PSF.

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI~318:

3' IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2" ELSEWHERE.

REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

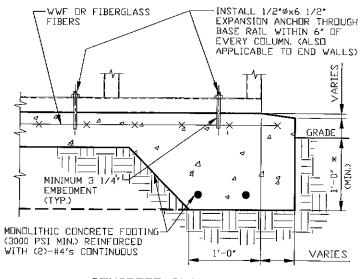
REINFURCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

- 1. REINFORCEMENT IS BENT COLD.
- 2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
- 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES

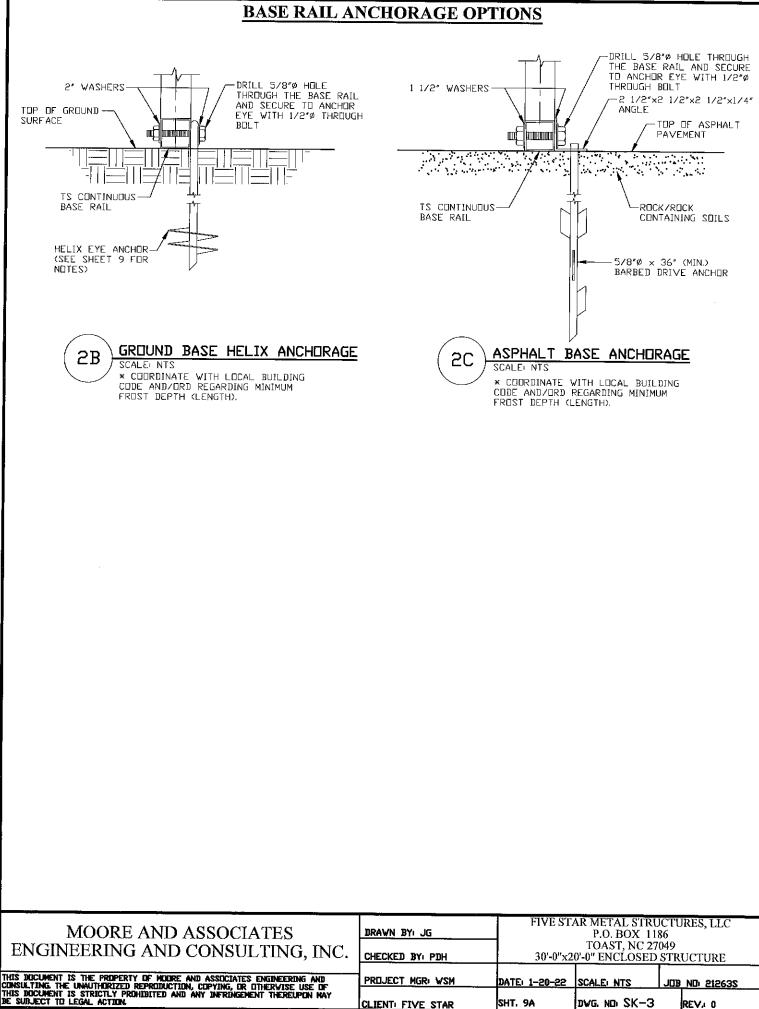
- 1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELIADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT. 2.
- 3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
- 4. FOR LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT.
- 5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER VITH MINIMUM 60" EMBEDMENT.

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CONCRETE SLAB BASE RAIL ANCHORAGE 2A SCALE: NTS WINIMUM ANCHOR EDGE DISTANCE IS 4". * COURDINATE WITH LOCAL BUILDING CODE AND/URD REGARDING MINIMUM FROST DEPTH

(LENGTH).



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DATE: 1-20-22

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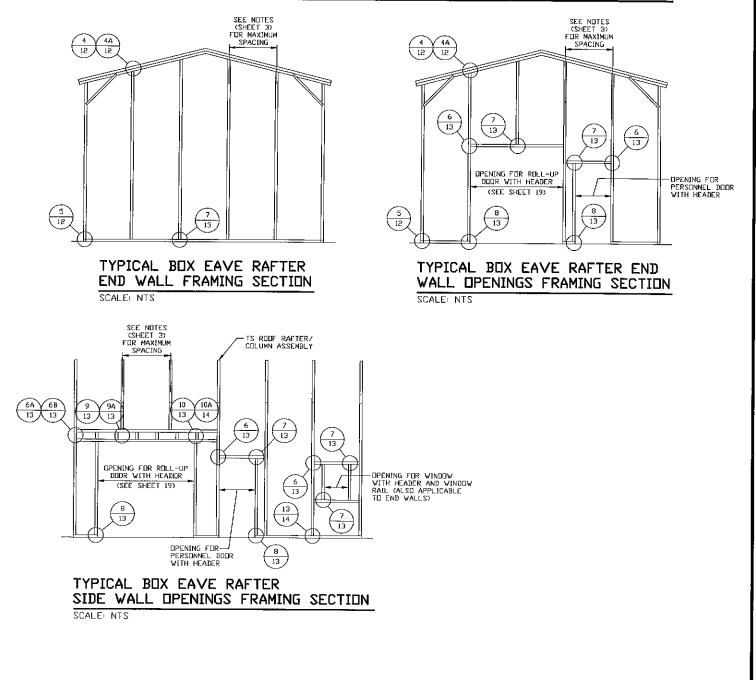
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<u> JOB ND: 212635</u>

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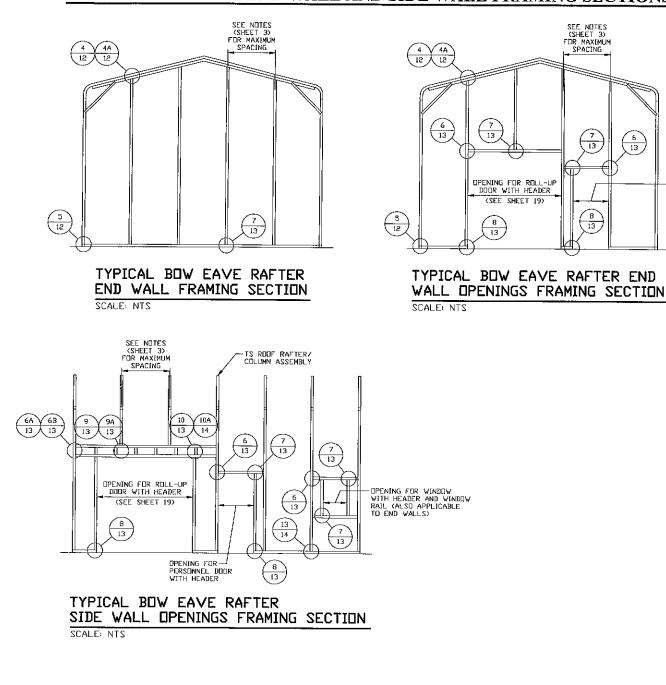
BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



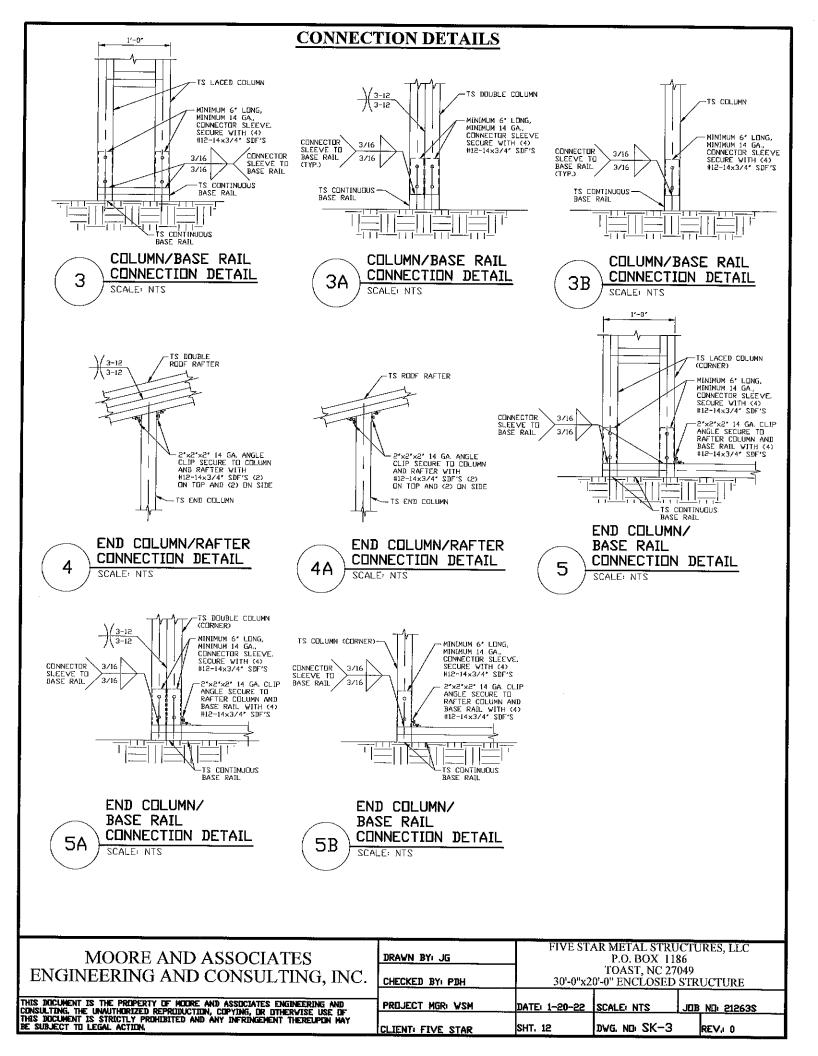
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BOW EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS

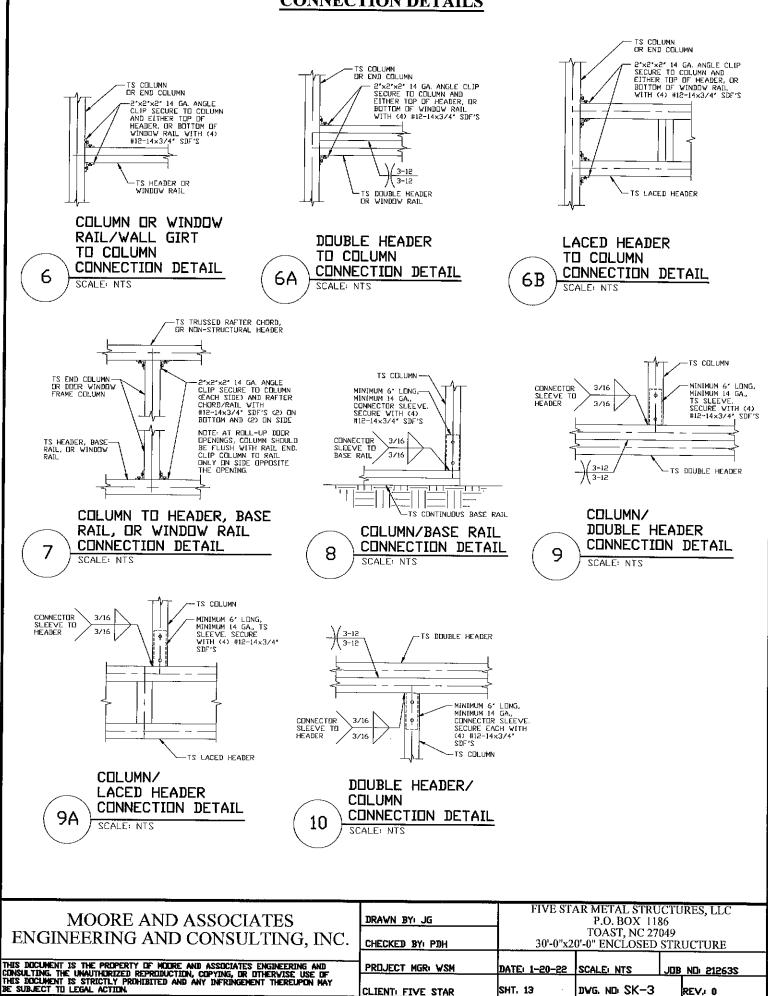
-OPENING FOR PERSONNEL DOOR WITH HEADER



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CONNECTION DETAILS



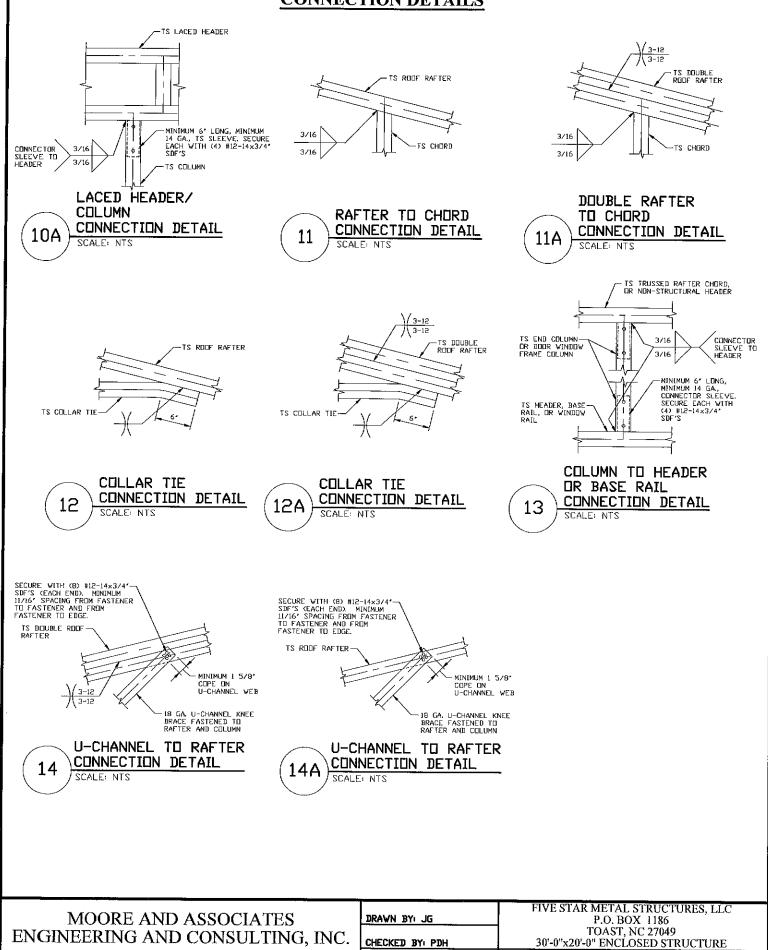
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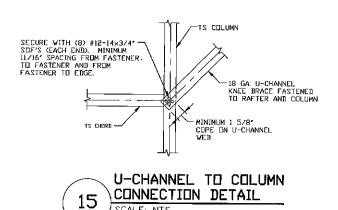
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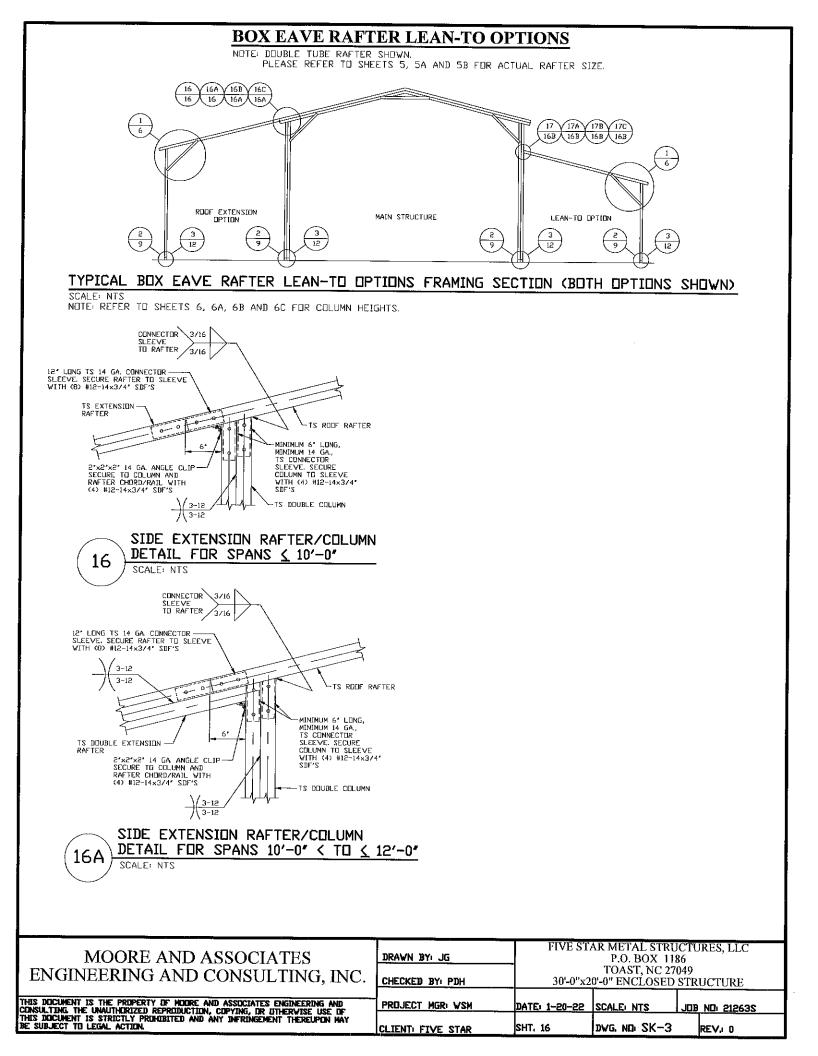
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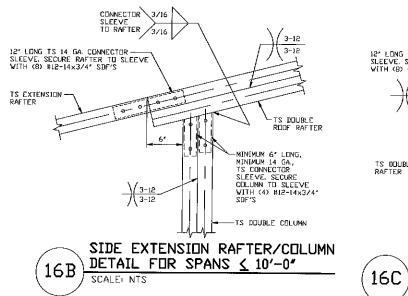


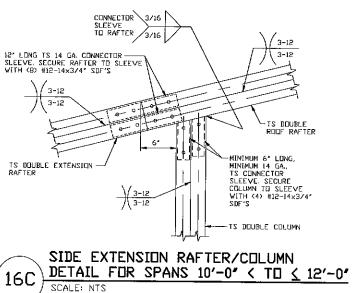
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BOX EAVE RAFTER LEAN-TO OPTIONS

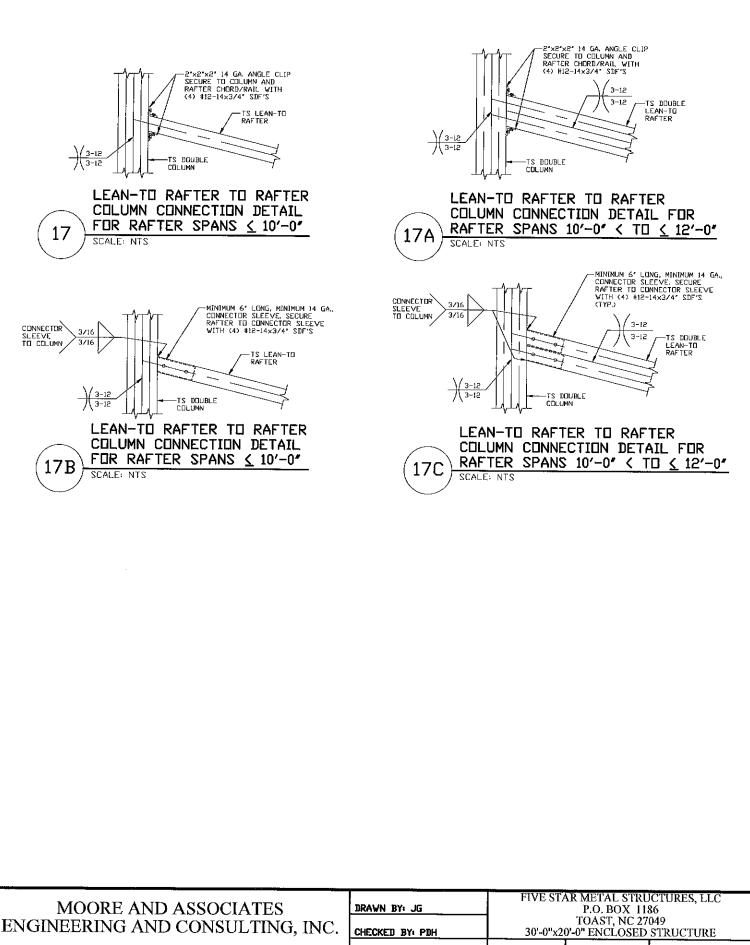




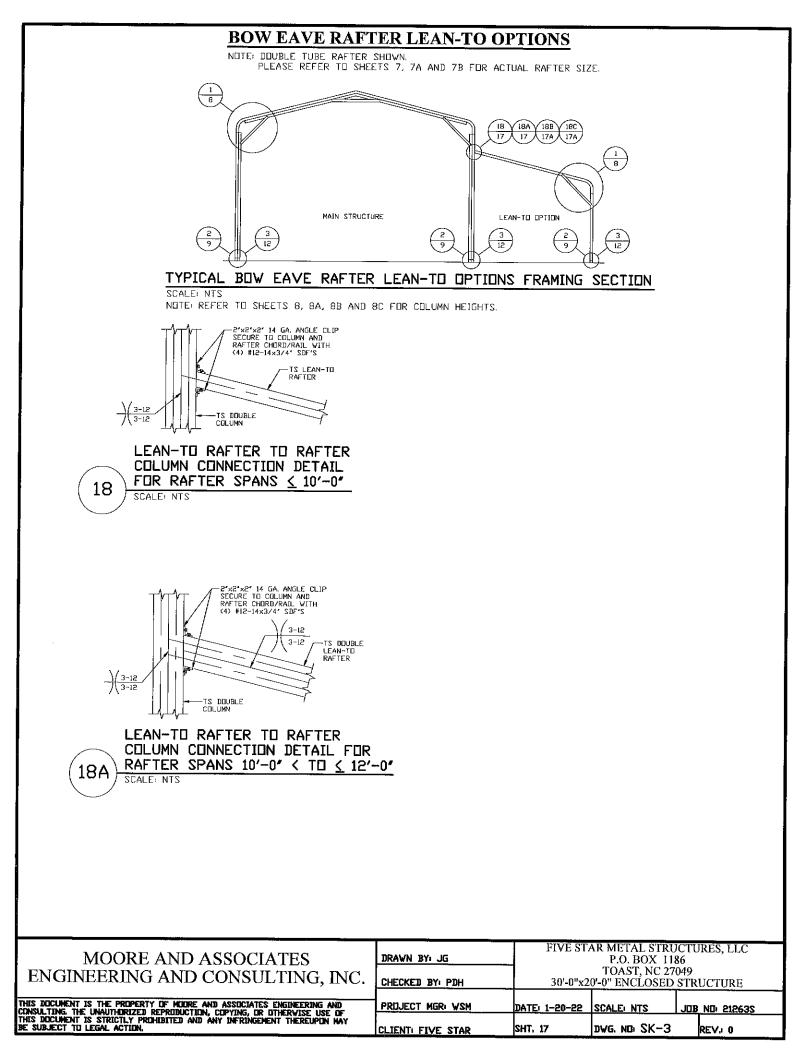
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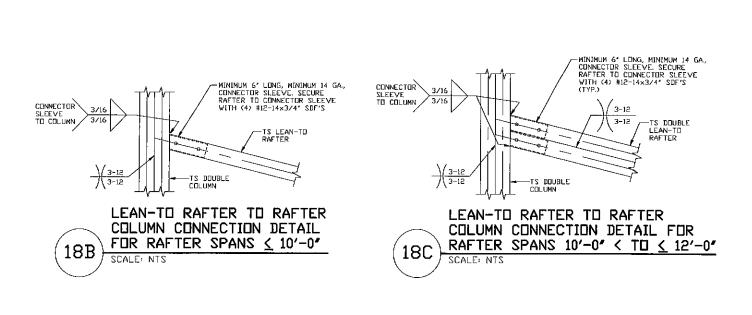
BOX EAVE RAFTER LEAN-TO OPTIONS



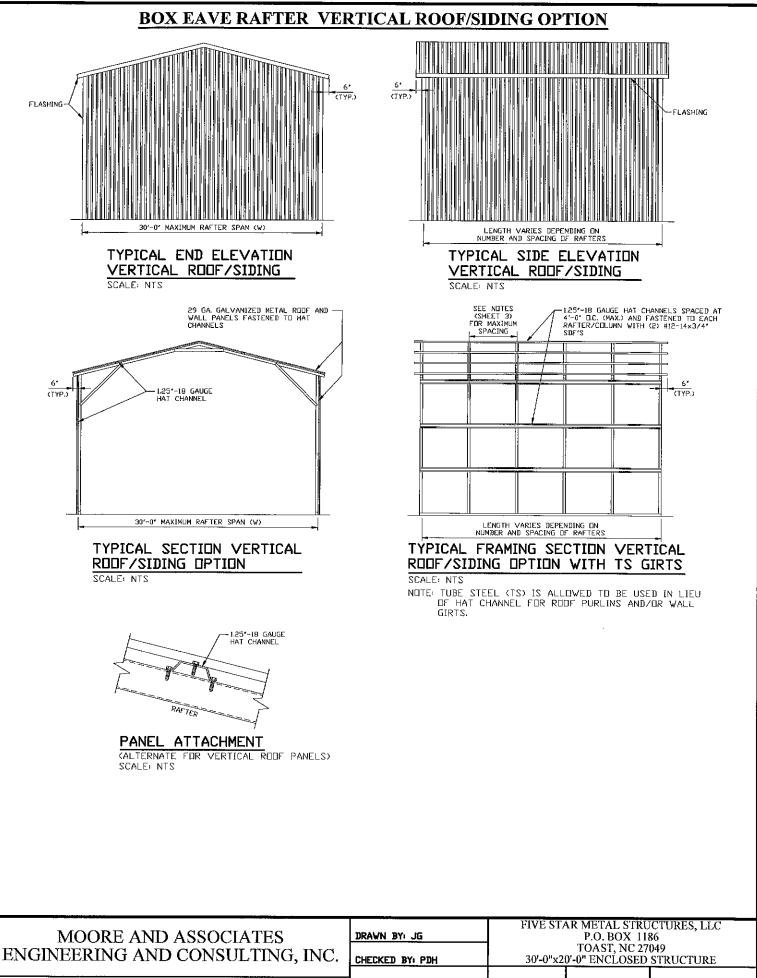
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BOW EAVE RAFTER LEAN-TO OPTIONS



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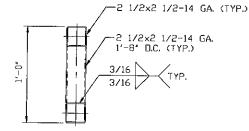
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SIDE WALL HEADER OPTIONS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES,



TS HEADER (TYP.))(3-12) 3-12

HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 5'-0" < LENGTH ≤ 8'-0"

SCALE: NTS



HEADER DETAIL FOR SIDE

12'-0" < LENGTH < 14'-0"

HEADER DETAIL FOR END WALL DOOR OPENINGS ≤ 7'-0"

WALL DOOR OPENINGS

SCALE: NTS

SCALE: NTS

HEADER DETAIL FOR SIDE

8'-0" < LENGTH ≤ 14'-0"

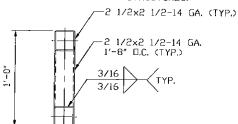
WALL DOOR OPENINGS

SCALE: NTS

SCALE: NTS

END WALL HEADER OPTIONS

NDTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



TS HEADER (TYP,) -)(3-12

TS DOUBLE HEADER

HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 7'-0" < LENGTH ≤ 12'-0"

SCALE: NTS

MOORE AND ASSOCIATES	DRAWN BYI JG	FIVE ST	AR METAL STRU P.O. BOX 11	86
ENGINEERING AND CONSULTING, INC.	CHECKED BY PDH	30'-0''x2	TOAST, NC 27 0'-0" ENCLOSED	049 STRUCTURE
TO AN OCTAVE THE UNMUTTURIZED REPRESENTED FIND. LEPTING, HE TIMERATSE THE THE	PROJECT MGRI WSM	DATE: 1-20-22	SCALE: NTS	JUB ND 212638
THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY DE SUBJECT TO LEGAL ACTION,	CLIENTI FIVE STAR	SHT. 19	DVG. NDI SK-3	REV. 0